# HIGH VOLTAGE RECTIFIERS T-23-05

OPERATING AND STORAGE TEMPERATURE −65°C to +175°C

| TYPE | Maximum Peak Reverse Voltage | Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz | | Maximum Forward Peak Surge Current @ 8.3ms Superimposed | Maximum Reverse Current @ PRV @ 25°C TA | Maximum Forward Voltage @ 25°C TA | | Maximum Reverse Recovery Time |
|---|---|---|---|---|---|---|---|---|
| | PRV | Io @ TA | | IFM (Surge) | IR | IFM | VFM | Trr |
| | VPK | AAV | °C | APK | µAdc | APK | VPK | nS |

## HIGH VOLTAGE – PLASTIC/DO-41/DO-15

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| HVR1200 | 1200 | 0.5 | 50 | 30 | 5.0 | 0.5 | 3.0 | – |
| HVR1500 | 1500 | 0.5 | 50 | 30 | 5.0 | 0.5 | 3.0 | – |
| HVR1800 | 1800 | 0.5 | 50 | 30 | 5.0 | 0.5 | 3.0 | – |
| HVR2000 | 2000 | 0.5 | 50 | 30 | 5.0 | 0.5 | 4.5 | – |
| HVR2500 | 2500 | 0.2 | 50 | 30 | 5.0 | 0.2 | 4.5 | – |
| HVR3000 | 3000 | 0.2 | 50 | 30 | 5.0 | 0.2 | 6.0 | – |
| HVR5000 | 5000 | 0.2 | 50 | 30 | 5.0 | 0.2 | 8.0 | – |

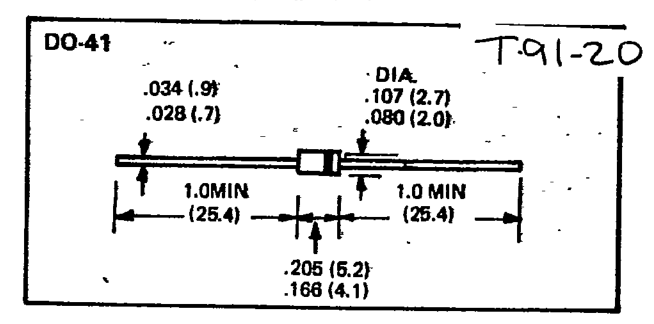
## HIGH VOLTAGE – PLASTIC/HVR-1/HVR-2

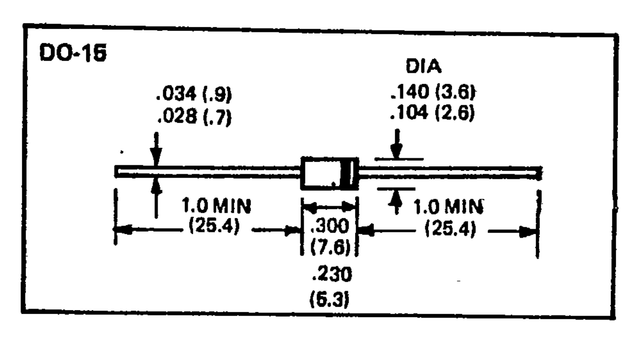
| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| HVR6000 | 6000 | 5.0mA | 25 | 0.5 | 2.0 | 10mA | 17.5 | 0.1 |
| HVR8000 | 8000 | 5.0mA | 25 | 0.5 | 2.0 | 10mA | 25.0 | 0.1 |
| HVR10000 | 10000 | 5.0mA | 25 | 0.5 | 2.0 | 10mA | 30.0 | 0.1 |
| HVR12000 | 12000 | 5.0mA | 25 | 0.5 | 2.0 | 10mA | 37.5 | 0.1 |
| HVR14000 | 14000 | 5.0mA | 25 | 0.5 | 2.0 | 10mA | 42.5 | 0.1 |
| HVR16000 | 16000 | 5.0mA | 25 | 0.5 | 2.0 | 10mA | 50.0 | 0.1 |
| HVR18000 | 18000 | 5.0mA | 25 | 0.5 | 2.0 | 10mA | 55.0 | 0.1 |
| HVR20000 | 20000 | 5.0mA | 25 | 0.5 | 2.0 | 10mA | 62.5 | 0.1 |
| HVR22000 | 22000 | 5.0mA | 25 | 0.5 | 2.0 | 10mA | 67.5 | 0.1 |
| HVR24000 | 24000 | 5.0mA | 25 | 0.5 | 2.0 | 10mA | 75.0 | 0.1 |

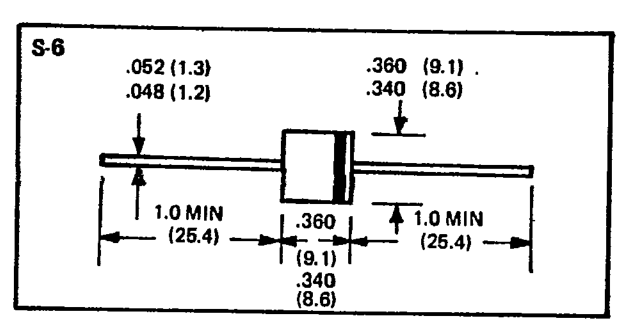
T91-20

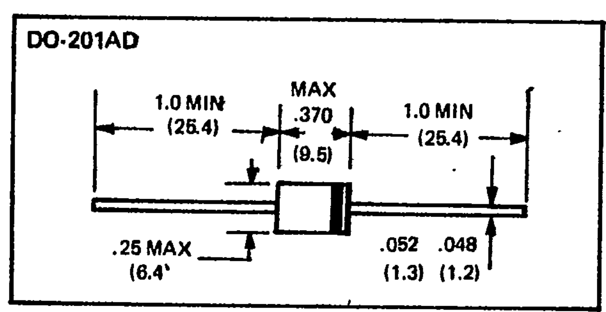
# OUTLINE OF RECTIFIERS

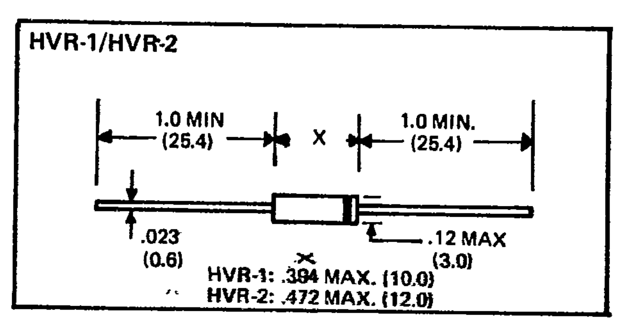
Unit: Inch (mm)

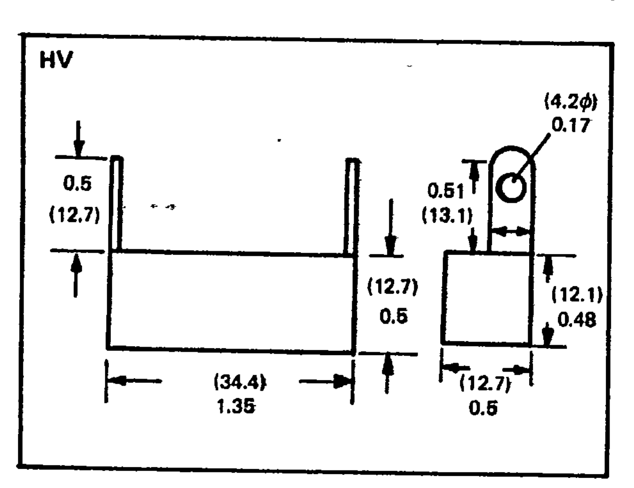


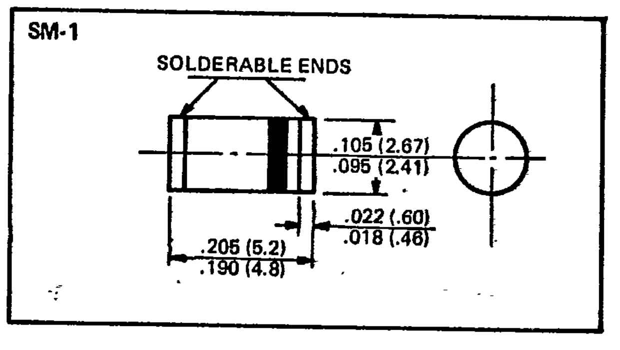



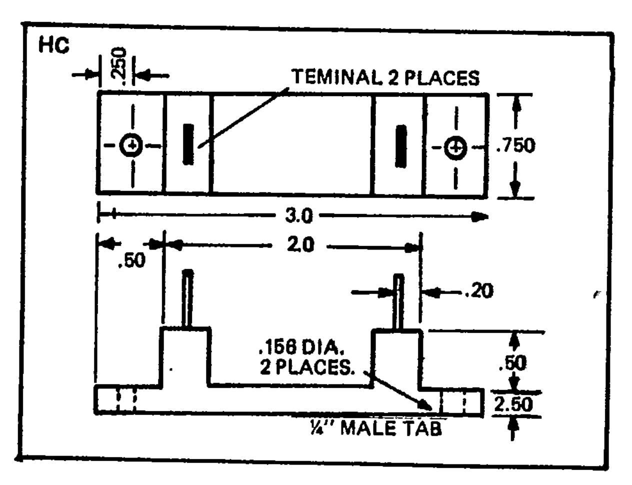



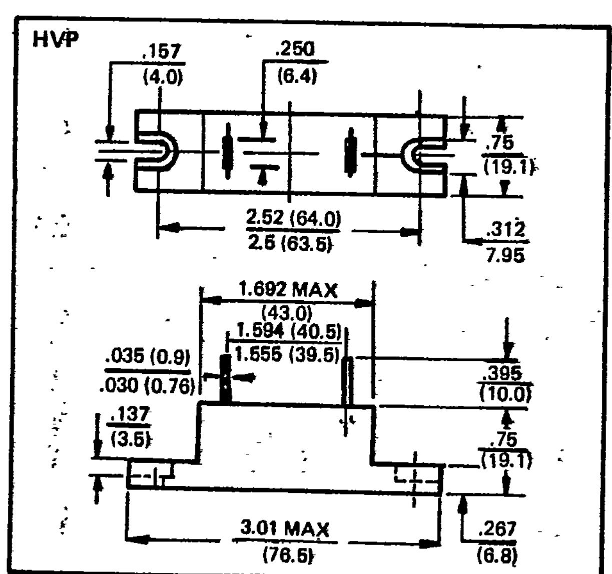



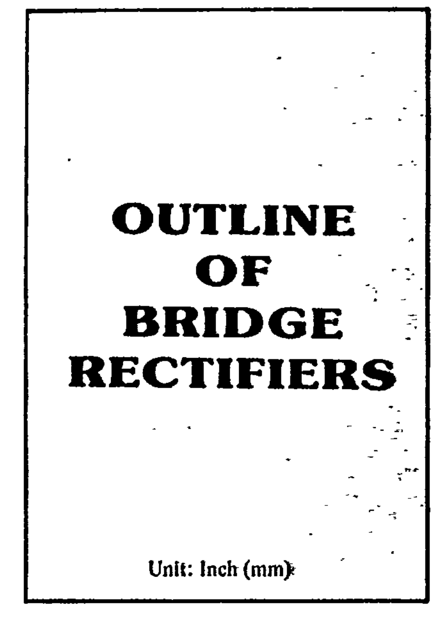



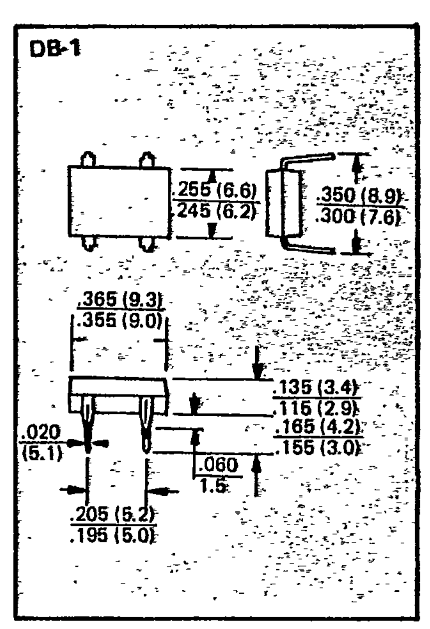



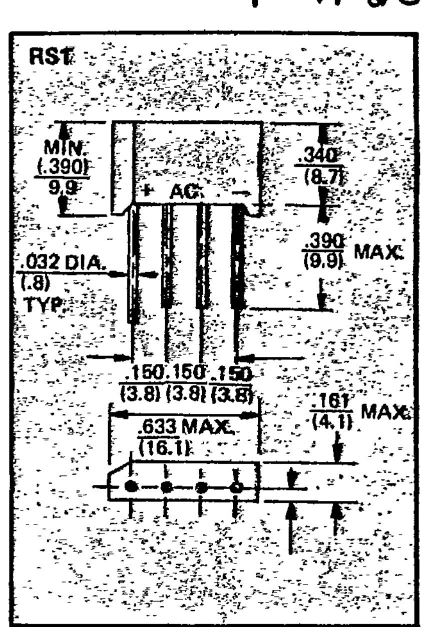



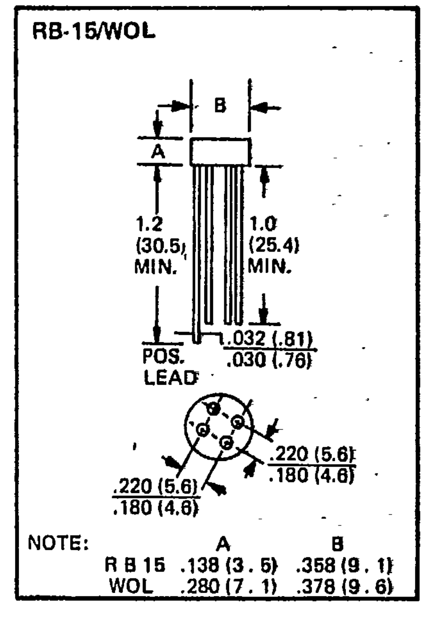



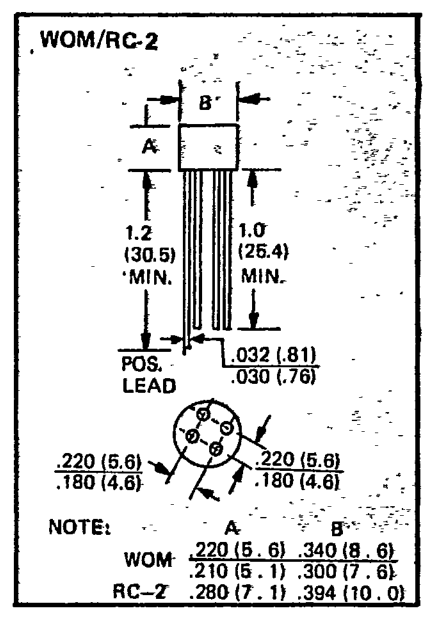



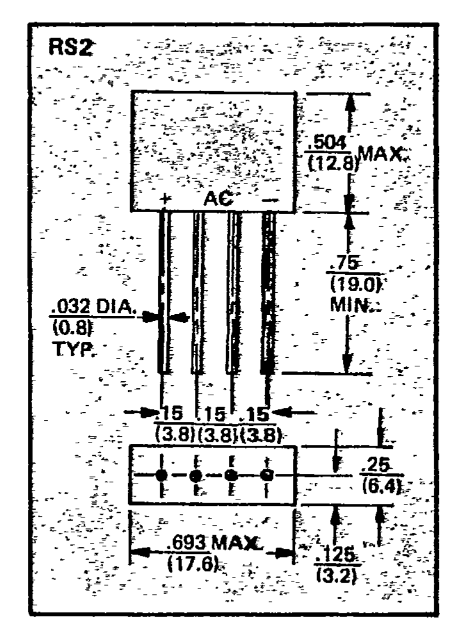

OUTLINE
OF
BRIDGE
RECTIFIERS
Unit: Inch (mm)

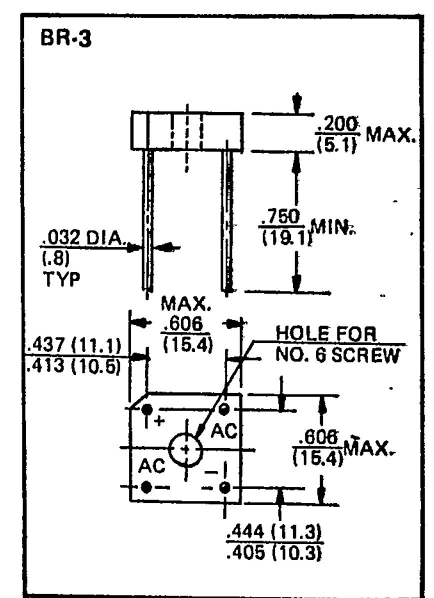

DB-1
.255 (6.6)
.245 (6.2)
.350 (8.9)
.300 (7.6)
.365 (9.3)
.355 (9.0)
.135 (3.4)
.115 (2.9)
.165 (4.2)
.155 (3.0)
.020
(5.1)
.060
1.5
.205 (5.2)
.195 (5.0)

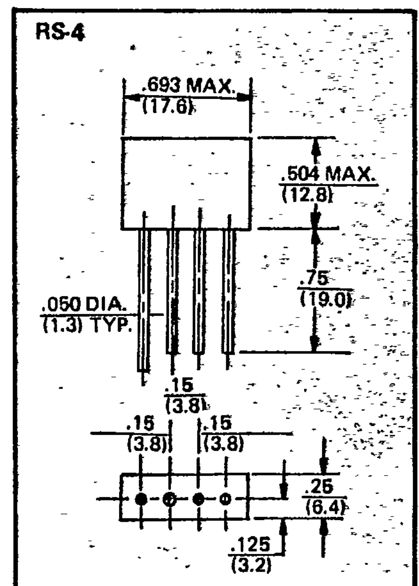

RS1
MIN.
(.390)
9.9
.340
(8.7)
+ AC
.390
(9.9) MAX.
.032 DIA.
(.8)
TYP.
.150 .150 .150
(3.8) (3.8) (3.8)
.161
(4.1) MAX.
.633 MAX.
(16.1)

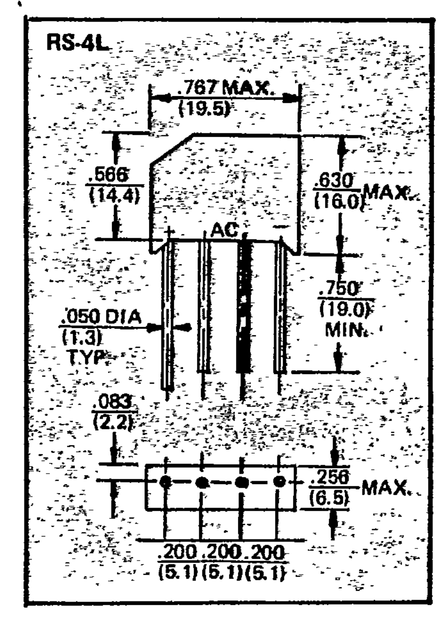

RB-15/WOL
B
A
1.2
(30.5)
MIN.
1.0
(25.4)
MIN.
POS.
LEAD
.032 (.81)
.030 (.76)
.220 (5.6)
.180 (4.6)
.220 (5.6)
.180 (4.6)
NOTE: A B
R B 15 .138 (3.5) .358 (9.1)
WOL .280 (7.1) .378 (9.6)

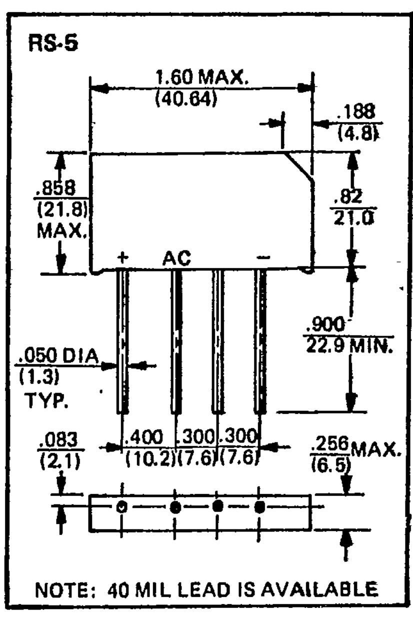

WOM/RC-2
B
A
1.2
(30.5)
MIN.
1.0
(25.4)
MIN.
POS.
LEAD
.032 (.81)
.030 (.76)
.220 (5.6)
.180 (4.6)
.220 (5.6)
.180 (4.6)
NOTE: A B
WOM .220 (5.6) .340 (8.6)
.210 (5.1) .300 (7.6)
RC-2 .280 (7.1) .394 (10.0)

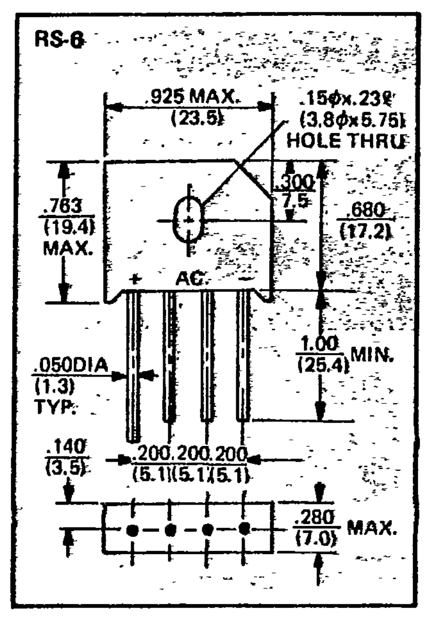

RS2
.504
(12.8) MAX.
+ AC –
.75
(19.0)
MIN.
.032 DIA.
(0.8)
TYP.
.15 .15 .15
(3.8) (3.8) (3.8)
.25
(6.4)
.693 MAX.
(17.6)
.125
(3.2)

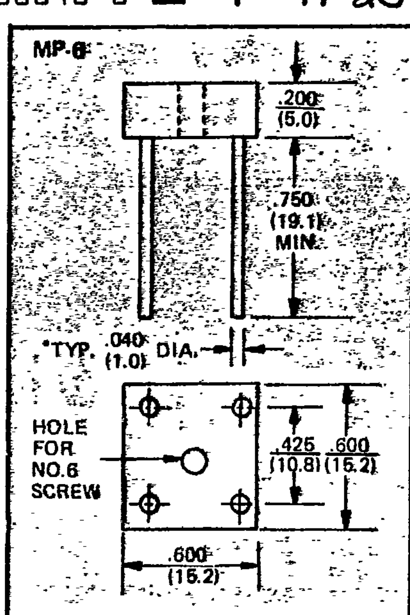

BR-3
.200
(5.1) MAX.
.032 DIA.
(.8)
TYP
.750
(19.1) MIN.
MAX.
.606
(15.4)
.437 (11.1)
.413 (10.6)
HOLE FOR
NO. 6 SCREW
+
AC
AC
–
.606
(15.4) MAX.
.444 (11.3)
.405 (10.3)

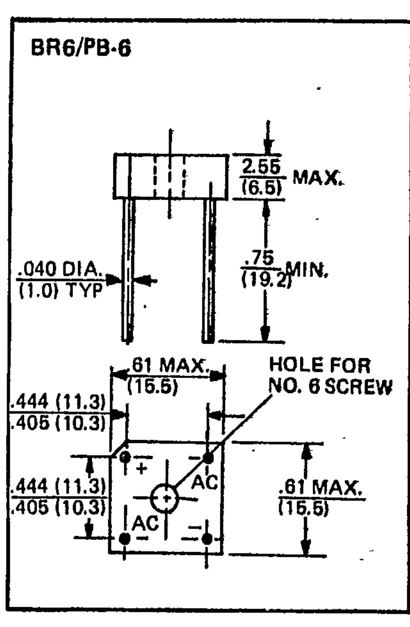

RS-4
.693 MAX.
(17.6)
.504 MAX.
(12.8)
.75
(19.0)
.050 DIA.
(1.3) TYP.
.15
(3.8)
.15
(3.8)
.15
(3.8)
.25
(6.4)
.125
(3.2)

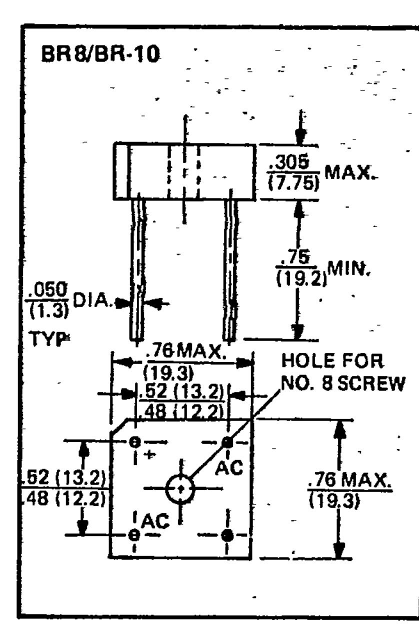

RS-4L
.767 MAX.
(19.5)
.566
(14.4)
.630
(16.0) MAX.
+ AC
.750
(19.0)
MIN.
.050 DIA
(1.3)
TYP.
.083
(2.2)
.256
(6.5) MAX.
.200 .200 .200
(5.1) (5.1) (5.1)

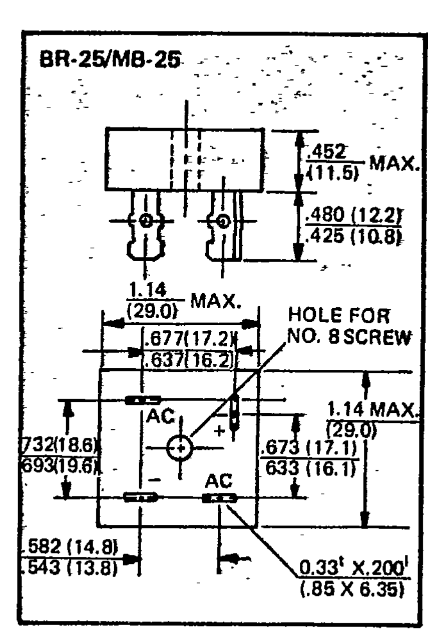

RS-5
1.60 MAX.
(40.64)
.188
(4.8)
.858
(21.8)
MAX.
.82
21.0
+ AC −
.900
22.9 MIN.
.050 DIA.
(1.3)
TYP.
.083
(2.1)
.400 .300 .300
(10.2) (7.6) (7.6)
.256
(6.5) MAX.
NOTE: 40 MIL LEAD IS AVAILABLE

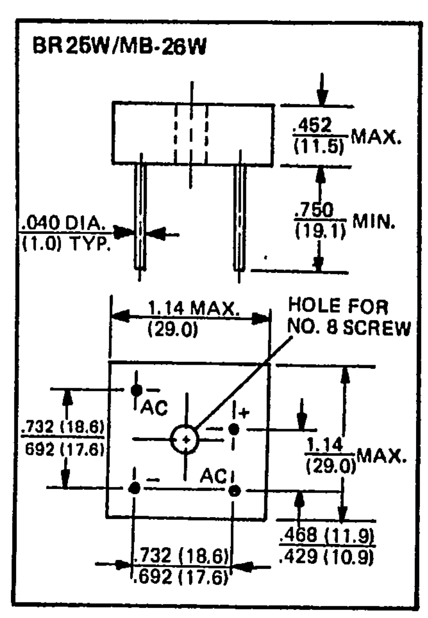

RS-6
.925 MAX.
(23.5)
.15ϕx.23
(3.8ϕx5.75)
HOLE THRU
.763
(19.4)
MAX.
.300
7.5
.680
(17.2)
+ AC −
1.00
(25.4) MIN.
.050DIA.
(1.3)
TYP.
.140
(3.5)
.200 .200 .200
(5.1) (5.1) (5.1)
.280
(7.0) MAX.

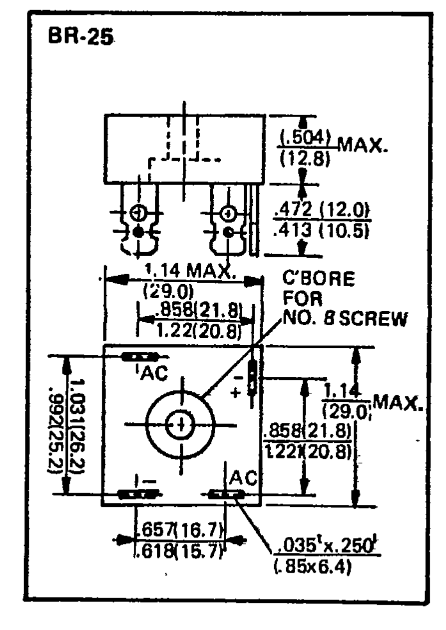

MP-6
.200
(5.0)
.750
(19.1)
MIN.
TYP. .040
(1.0) DIA.
HOLE
FOR
NO.6
SCREW
.425
(10.8)
.600
(15.2)
.600
(15.2)

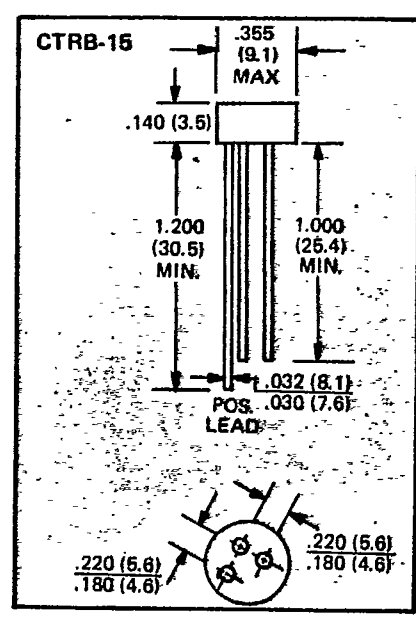

BR6/PB-6
2.56
(6.5) MAX.
.040 DIA.
(1.0) TYP
.75
(19.2) MIN.
.61 MAX.
(15.5)
HOLE FOR
NO. 6 SCREW
.444 (11.3)
.405 (10.3)
.444 (11.3)
.405 (10.3)
+
AC
AC
.61 MAX.
(15.5)

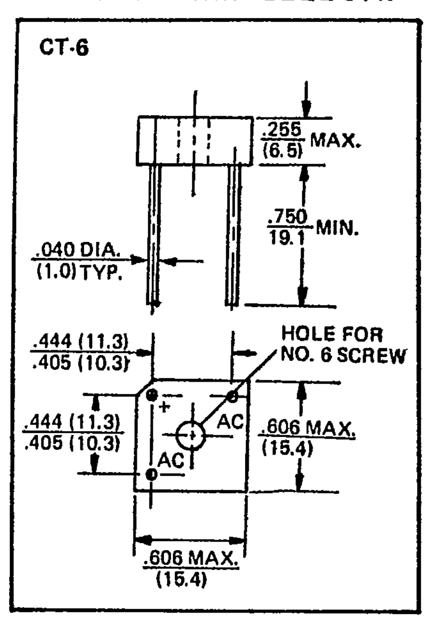

BR8/BR-10
.305
(7.75) MAX.
.75
(19.2) MIN.
.050
(1.3) DIA.
TYP
.76 MAX.
(19.3)
.52 (13.2)
.48 (12.2)
HOLE FOR
NO. 8 SCREW
.52 (13.2)
.48 (12.2)
+
AC
AC
.76 MAX.
(19.3)

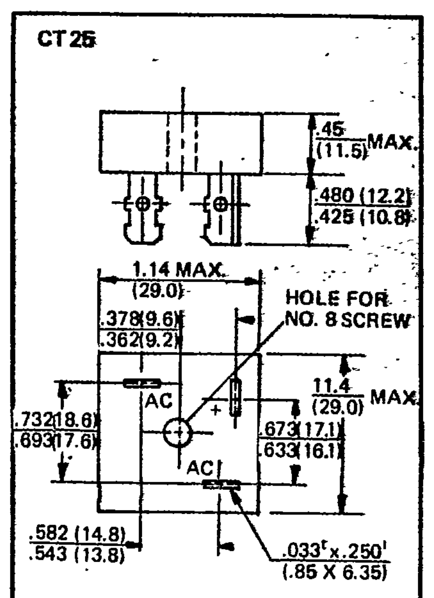

BR-25/MB-25
.452
(11.5) MAX.
.480 (12.2)
.425 (10.8)
1.14
(29.0) MAX.
HOLE FOR
NO. 8 SCREW
.677 (17.2)
.637 (16.2)
AC
+
AC
1.14 MAX.
(29.0)
.732 (18.6)
.693 (19.6)
.673 (17.1)
.633 (16.1)
.582 (14.8)
.543 (13.8)
0.33 X .200
(.85 X 6.35)

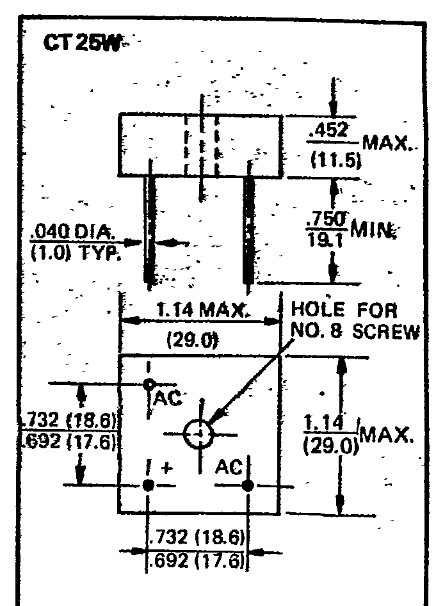

BR25W/MB-25W
.452
(11.5) MAX.
.040 DIA.
(1.0) TYP.
.750
(19.1) MIN.
1.14 MAX.
(29.0)
HOLE FOR
NO. 8 SCREW
AC
+
AC
.732 (18.6)
.692 (17.6)
1.14
(29.0) MAX.
.468 (11.9)
.429 (10.9)
.732 (18.6)
.692 (17.6)


BR-25
(.504)
(12.8) MAX.
.472 (12.0)
.413 (10.5)
1.14 MAX.
(29.0)
.858 (21.8)
1.22 (20.8)
C'BORE
FOR
NO. 8 SCREW
AC
+
AC
1.031 (26.2)
.992 (25.2)
1.14
(29.0) MAX.
.858 (21.8)
.122 (20.8)
.657 (16.7)
.618 (15.7)
.035 x .250
(.85x6.4)


CTRB-15
.355
(9.1)
MAX
.140 (3.5)
1.200
(30.5)
MIN.
1.000
(25.4)
MIN.
.032 (8.1)
.030 (7.6)
POS.
LEAD
.220 (5.6)
.180 (4.6)
.220 (5.6)
.180 (4.6)


CT-6
.255
(6.5)
MAX.
.750
19.1
MIN.
.040 DIA.
(1.0) TYP.
.444 (11.3)
.405 (10.3)
HOLE FOR
NO. 6 SCREW
.444 (11.3)
.405 (10.3)
+
AC
AC
.606 MAX.
(15.4)
.606 MAX.
(15.4)


CT 25
.45
(11.5)
MAX.
.480 (12.2)
.425 (10.8)
1.14 MAX.
(29.0)
HOLE FOR
NO. 8 SCREW
.378 (9.6)
.362 (9.2)
11.4
(29.0)
MAX.
AC
+
.732 (18.6)
.693 (17.6)
.673 (17.1)
.633 (16.1)
AC
.582 (14.8)
.543 (13.8)
.033" x .250"
(.85 X 6.35)


CT 25W
.452
(11.5)
MAX.
.040 DIA.
(1.0) TYP.
.750
19.1
MIN.
1.14 MAX.
(29.0)
HOLE FOR
NO. 8 SCREW
AC
.732 (18.6)
.692 (17.6)
1.14
(29.0)
MAX.
+
AC
.732 (18.6)
.692 (17.6)

# RECTIFIER AND BRIDGE PACKAGING

## BULK PACK

| Device | INNER SIZE (m/m) | BOX (EA) | CARTON SIZE (m/m) | CARTON (KEA) | APPROX. GROSS WEIGHT (Kg) |
|---|---|---|---|---|---|
| DO-41 | 200x84x21 | 1,000 | 451x205x254 | 50,000 | 19.8 |
| DO-15 | 200x84x21 | 500 | 451x205x254 | 25,000 | 13.0 |
| HVR-1/HVR-2 | 200x84x21 | 500 | 451x205x254 | 25,000 | 23.8 |
| DO-201AD | 303x73x40 | 500 | 330x310x268 | 12,000 | 17.2 |
| S-6 (6A) | 303x73x40 | 200 | 330x310x268 | 4,800 | 12.8 |
| RS-1 | 255x168x61 | 1,000 | 330x310x268 | 10,000 | 19.1 |
| RS-2 | 160x208x51 | 400 | 457x215x258 | 4,000 | 13.2 |
| BR-3 | 207x207x53 | 200 | 457x215x258 | 1,600 | 7.15 |
| RB-15 | 255x168x61 | 1,000 | 330x310x268 | 10,000 | 18.7 |
| RS-4 | 237x237x43 | 400 | 494x245x285 | 4,000 | 17.34 |
| RS-4L | 237x237x43 | 400 | 494x245x285 | 4,000 | 21.37 |
| RS-5 | 237x237x43 | 200 | 494x245x285 | 2,000 | 21.5 |
| BR-6/PB-6 | 207x207x53 | 200 | 457x215x258 | 1,600 | 8.865 |
| RS-6 | 237x237x43 | 200 | 494x245x285 | 2,000 | 13.315 |
| BR-8/BR-10 | 224x224x48 | 200 | 494x245x285 | 2,400 | 20.3 |
| BR-15<br>BR-25<br>BR-35 | 207x207x53 | 50 | 457x215x258 | 400 | 18.2 |
| BR-15W<br>BR-25W<br>BR-35W | 207x207x53 | 50 | 457x215x258 | 400 | 11.63 |
| RB15/WOM | 250x160x57 | 1,000 | 343x322x267 | 10,000 | 13.7 |
| MP6 | 207x207x53 | 200 | 451x205x254 | 16,000 | 7.0 |
| DB-1 | 490x145x85 | 2,500 | 510x365x310 | 20,000 | 14.4 |
| WOL | 250x160x57 | 600 | 343x322x267 | 6,000 | 13 |
| HV | 225x225x40 | 100 | 451x205x254 | 1,000 | 11.6 |
| HC | 207x207x53 | 40 | 451x205x254 | 320 | 10.2 |
| HVP | 207x207x53 | 40 | 451x205x254 | 320 | 11.8 |
| ZENER | 200x84x21 | 1,000 | 451x205x254 | 50,000 | 13.1 |

## REEL PACK

| DEVICE | REEL (EA) | COMPONENT SPACE (m/m) | TAPE SPACE (m/m) | REEL DIA (m/m) | CARTON SIZE (m/m) | APPROX GROSS WEIGHT (Kg) |
|---|---|---|---|---|---|---|
| DO-41 | 5,000 | 5.0 | 51 | 330 | 350x350x345 | 10.5 |
| DO-15 | 4,000 | 5.0 | 51 | 330 | 350x350x345 | 10.0 |
| HVR-1/HVR-2 | 3,000 | 5.0 | 51 | 330 | 350x350x345 | 14.2 |
| DO-201AD | 1,200 | 9.5 | 51 | 330 | 350x350x345 | 9.2 |
| S-6 | 500 | 9.5 | 51 | 330 | 350x350x345 | 7.3 |

## AMMUNITION PACK

| DEVICE | BOX (EA) | COMPONENT SPACE (m/m) | TAPE SPACE (m/m) | BOX SIZE (m/m) | CARTON SIZE (m/m) | CARTON (EA) | APPROX GROSS WEIGHT (Kg) |
|---|---|---|---|---|---|---|---|
| DO-41 | 3,000 | 5.0 | 51 | 255x78x95 | 350x350x345 | 4,800 | 18.3 |
| DO-15 | 2,200 | 5.0 | 51 | 255x78x95 | 350x350x345 | 33,000 | 18.3 |
| HVR-1/HVR-2 | 2,000 | 5.0 | 51 | 255x78x95 | 350x350x345 | 30,000 | 27.2 |
| DO-201AD | 800 | 9.5 | 51 | 255x78x95 | 350x350x345 | 12,000 | 17.4 |
| S-6 | 300 | 9.5 | 51 | 255x78x95 | 350x350x345 | 4,500 | 11.9 |
| DO-41 | 3,000 | 5.0 | 26 | 255x51x95 | 330x310x268 | 42,000 | 15.1 |
| DO-15 | 2,200 | 5.0 | 26 | 255x51x95 | 330x310x268 | 37,400 | 13.6 |